

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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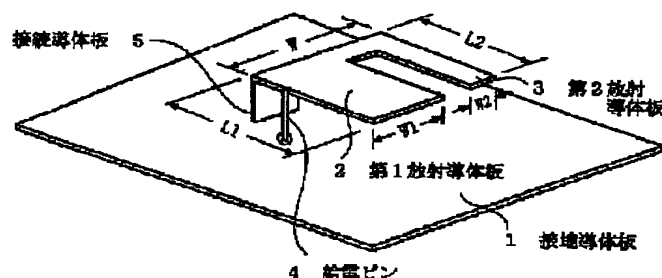
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TITLE : DUAL RESONANCE INVERTED-F  
SHAPE ANTENNA



**ABSTRACT :** PROBLEM TO BE SOLVED: To obtain the small sized and low height dual resonance inverted-F shape antenna that is able to be resonant with a plurality of frequencies by providing a planer radiation plate having a plurality of radiation conductor plates, a feeding pin and a connection conductor plate that connects the radiation plates to a ground conductor plate to the antenna.

**SOLUTION:** The antenna comprises a ground conductor plate 1 acting like the earth, a radiation plate consisting of a 1st radiation conductor plate 2 and a 2nd radiation conductor plate 3 arranged on the ground conductor plate 1 at a prescribed interval, a connection conductor plate 5 connecting the radiation plate and the ground conductor plate 1, and a feeding pin 4 penetrated through the ground conductor plate 1 to supply high frequency power to the radiation plate. Furthermore, the feeding pin is an extension of a center conductor of a coaxial connector provided to the backside of the ground conductor plate 1. Then a slit is made to one flat conductor plate to form the 1st radiation conductor plate 2 whose width is  $W_1$  and whose length is  $L_1$  and the 2nd radiation conductor plate 3 whose width is  $W_2$  and whose length is  $L_2$  and the connection conductor plate 5 is formed by folding part of the radiation plate.

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